

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-177060

(43)Date of publication of application : 01.08.1991

(51)Int.Cl.

H01L 23/50

(21)Application number : 01-316231

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(22)Date of filing : 05.12.1989

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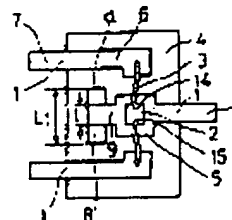
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## (54) LEAD FRAME FOR SEMICONDUCTOR DEVICE

### (57)Abstract:

**PURPOSE:** To prevent crack of a semiconductor element from occurring and improve reliability in an outer lead bending process by providing a reinforcing fixing part at a die pad part where the semiconductor element of a lead frame is adhered.

**CONSTITUTION:** In a case where a mold resin 4 on the surface of a lead frame 1 are removed, a protrusion 8 corresponding to the reinforcing fixing part is provided at the tip part within a mold resin 4 at a die pad part 5. Then, the protrusion 8 has the same thickness as the die pad part 5, is provided with a rectangular shape a having a horizontal width L1 which is longer than the width in horizontal direction of the die pad 5, and is connected to the die pad part 5 through a connection part 9 with a shorter width l than the horizontal width of this rectangular shape a. Thus, in a process for bending an outer lead 7 of the semiconductor device, the die pad 6 is pulled toward the outside and is subjected to stress. However, since a protrusion 8 is provided at the die pad 5, the protrusion 8 can be resistant at the mold resin 4 even if the die pad 5 is subjected to stress so that the stress cannot be centered to the semiconductor element 2, thus reducing the possibility that a crack may be produced at the semiconductor element 2 drastically.



### LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the  
examiner's decision of rejection or application  
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of  
rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

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